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Approved for use through 10/31/2002. OMB 0651-0032
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UTILITY
PATENT APPLICATION
TRANSMITTAL

Attorr	ney Docket No.	NC 84,637
First I	nventor	O'Grady
	LOW TEMPERATUR REFRACTORY MET	RE REFINING AND FORMATION OF CALS

(Only for new non provisional applica	ions under 37 <i>CFR</i> 1.53(b	))   Ex	press	Mail Label No.			<i></i>
APPLICATION EL	EMENTS		ADDE	RESS TO: Box F	istant Con	nmissi	oner for Patents
See MPEP chapter 600 concerning utili	y patent application conte			Wa	shington,	DC 20	231
Fee Transmittal Form (e.g., f (Submit an original and a duldicate for f	e processing)		7.	CD-ROM or CD-R in Computer Program	(Appendix	()	
2. See 37 CFR 1.27.	status.		8. Nucli	eotide and/or Amino A oplicable, all necessar	icid Sequi vi	ence S	ubmission
3. (preferred arrangement set forth belo	otal Pages 9		a	Computer Readab		CRF)	'
<ul> <li>Descriptive title of the inve</li> <li>Cross Reference to Relate</li> </ul>			b. Sp	ecification Sequence	Listing or	n:	
- Statement Regarding Fed - Reference to sequence list	sponsored R & D			1. CD-ROM o	or CD-R (2	copie!	s); or
or a computer program list	ing appendix		-	_11 paper			
- Background of the Inventi			c	Statements verify	ing identit	y of ab	ove copies
<ul> <li>Brief Summary of the Inve</li> <li>Brief Description of the Dr</li> </ul>			Α	CCOMPANYING	APPLIC	ATIC	N PARTS
<ul> <li>Detailed Description</li> </ul>	<b>3</b> - ()		9.	Assignment Papers	s (cover s	heet &	document(s))
<ul> <li>Claim(s)</li> <li>Abstract of the Disclosure</li> </ul>	•		10.	37 CFR 3.73(b) St (when there is an			Power of Attorney
4. X Drawing(s) (35 U. S. C. 113	) [ Total Sheets 4	] 1	11.	English Translatio			pplicable)
5. Oath or Declaration	[ Total Pages 13	_ i	12.	Information Disclo Statement (IDS)/P			Copies of IDS Citations
a. X Newly executed (origin	al or copy)		13.	Preliminary Amen			
b. Copy from a prior appli (for continuation/division	cation (37 CFR 1.63 (d)) nal <i>with</i> Box 18 completed	1)	14.	Return Receipt Po	ostcard (M cally itemi	IPEP 5 zed)	503)
DELETION OF	INVENTOR(S) thed deleting inventor(s)		15.	Certified Copy of l			nt(s)
named in the prior app	lication, see 37 CFR		16.	Request and Cert	ification u	nder 3	5 U.S.C. 122
1.63(d)(2) and 1.33(b).			```_	→ (b)(2)(13)(i). Appliant or its equivalent.  Output  Description:  Output  Descrip	cant must	attach	form PTO/SB/35
6. X Application Data Sheet. Se	∋ 37 CFR 1.76		17.	Other:			
18. If a CONTINUING APPLICATION, o	heck appropriate hox, and	l sunnly th	느느		and in a r	relimi	nary amendment
or in an Application Data Sheet under 3		a Supply ii	io ioquit	nic information pelow	and in a p	, e i i i i	nary amendment,
Continuation Divisional	Continuation-in-part	(CIP)	of	prior application No.:	/		
	niner	-		Group Art Unit			·
For CONTINUATION OR DIVISIONAL AP Box 5b, is considered a part of the disclos	PS only: The entire disclosu	re of the p ontinuatio	orior appl n or divis	ication, from which an o ional application and is	oath or dec s hereby in	laratio	n is supplied under ated by reference
The incorporation can only be relied upon	when a portion has been in	advertent	ly omitte	d from the submitted ar	plication	arts.	
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Country US		Teleph	one	202-404-1552	F	3 X	202-404-7380
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PTO/SB/17 (01-03)
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FEE	TR	ANS	SMI	TT	ΑL
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Effective 0110112003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

/ <b>C</b> \	750
141	/ ) (

Complete if Known		
Application Number	Not yet assigned	
Filing Date	June 24, 2003	
First Named Inventor	O'Grady	
Examiner Name	Not yet assigned	
Art Unit	Not yet assigned	
Attorney Docket No.	84,637	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
Check Credit card Money Other None				
Deposit Account:	Large Entity   Small Entity			
Deposit Deposit	Fee Fee Code (\$)	Fee Fee Code (\$)	F D	
Account Number	1051 130	2051 65 Surcharge - late filing fee or oath	Fee Paid	
Deposit .	1052 50	2052 25 Surcharge - late provisional filing fee or		
Account NAVAL RESEARCH LABORATORY		cover sheet		
The Commissioner is authorized to: (check all that apply)	1053 130	1053 130 Non-English specification		
Charge fee(s) indicated below Credit any overpayments	1812 2,520	1812 2,520 For filing a request for ex parte reexamination		
Charge any additional fee(s) during the pendency of this application	1804 920*	1804 920* Requesting publication of SIR prior to Examiner action		
harge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840*	1805 1,840* Requesting publication of SIR after Examiner action		
FEE CALCULATION	1251 110	2251 55 Extension for reply within first month		
1. BASIC FILING FEE	1252 410	2252 205 Extension for reply within second month	——-	
Large Entity Small Entity	1253 930	2253 465 Extension for reply within third month	<del></del>	
Fee Fee   Fee Fee   Fee Description   Fee Paid   Code (\$)   Code (\$)	1254 1,450	2254 725 Extension for reply within fourth month		
1001 750 2001 375 Utility filing fee 750.00	1255 1,970	2255 985 Extension for reply within fifth month		
1002 330 2002 165 Design filing fee	1401 320	2401 160 Notice of Appeal		
1003 520 2003 260 Plant filing fee	1402 320	2402 160 Filing a brief in support of an appeal		
1004 750 2004 375 Reissue filing fee	1403 280	2403 140 Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451 1,510	1451 1,510 Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 750.00	1452 110	2452 55 Petition to revive - unavoidable		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,300	2453 650 Petition to revive - unintentional		
Fee from	1501 1,300	2501 650 Utility issue fee (or reissue)		
Extra Claims below Fee Paid  Total Claims 10 -20- = x	1502 470	2502 235 Design issue fee		
Independent 7 3 - 3 -	1503 630	2503 315 Plant issue fee		
Claims Multiple Dependent	1460 130	1460 130 Petitions to the Commissioner		
Large Entity   Small Entity	1807 50	1807 50 Processing fee under 37 CFR 1.17(q)		
Fee Fee Fee Fee Description	1806 180	1806 180 Submission of information Disclosure Stmt		
Code (\$)   Code (\$)	8021 40	8021 40 Recording each patent assignment per property (times number of properties)		
1202 18	1809 750	2809 375 Filing a submission after final rejection (37 CFR 1.129(a))		
1203 280 2203 140 Multiple dependent claim, if not paid	1810 750	2810 375 For each additional invention to be		
1204 84 2204 42 Reissue independent claims over original patent	1801 750	examined (37 CFR 1.129(b)) 2801 375 Request for Continued Examination (RCE)		
1205 18 2205 9 Reissue claims in excess of 20	1802 900	1802 900 Request for expedited examination		
and over original patent	.552 550	of a design application		
SUBTOTAL (2) (\$) 0	Other fee (specify)			
• *or number previously paid, if greater; For Reissues, see above • Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0				
SUBMITTED BY		(Complete (if applicable)		

SUBMITTED BY			(Complete	(if applicable)
Name (PrintlType)	John J. Karasek	Registration No. 36,182	Telephon	e (202) 404-1552
. Signature			Date	6/2/105

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